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U.S. Serial No. 09/528,766

IN THE CLAIMS:*Subj.*

(Twice Amended) A reciprocating fuel pump comprising:

a housing assembly including a drive section and a pump section;

C1
a drive assembly disposed in the drive section, the drive assembly including a permanent magnet and a coil assembly having a winding and disposed within the central volume of the drive section adjacent to the permanent magnet and movable reciprocally axially along a central axis to impart a force upon application of alternating polarity signals of variable amplitude to the winding, wherein the amplitude of the signals defines an amount of the force imparted; and

a pump member secured to and movable reciprocally with the coil assembly, the pump member extending into the pump section to produce pressure variations in the pump section during reciprocal movement and in response to the imparting of the force to draw fuel into the pump section and to express fuel therefrom.

Subj.

8. (Twice Amended) A reciprocating fuel pump comprising:

C2
a drive system including a coil assembly and a permanent magnet, one of the coil assembly and the permanent magnet being disposed in a fixed position and the other of the coil assembly and permanent magnet being movable reciprocally responsive to alternating polarity in a signal of variable amplitude to the coil assembly, the drive system further comprising a drive member secured to and movable reciprocally with either the coil assembly or the permanent magnet; and

a pump assembly adjacent to the drive system, the drive member extending into the pump assembly for generating increases and decreases in fluid pressure within the pump assembly during reciprocal movement to draw fuel into the pump assembly and to express fuel